Studies on Porosity Control and Stabilization of Mesoporous Silicas and Aluminas

Lopez Perez, Lidia

Stellingen

Behorende bij het proefschrift:

STUDIES ON POROSITY CONTROL AND STABILIZATION OF MESOPOROUS SILICAS AND ALUMINAS

Lidia López Pérez

1. It is possible to obtain a perfect MCM-41 mesophase but full structural preservation and minimum particle agglomeration after template removal is difficult.
   Chapter 2 of this Thesis

2. The hydrothermal stability of MCM-41 is not only affected by hydrolysis but capillary forces contribute as well.
   Chapter 3 of this Thesis

3. The claim "*solvent extraction of as-synthesized SBA-15 using ethanol at 78°C allows the organic copolymer to be completely removed without decomposition, permitting its recovery and reuse*", by *D.Y. Zhao, J. Feng, Q. Huo, N. Melosh, G. H. Fredickson, B. F. Chmelka, G. D. Stucky. Science 279 (**1998**) 548*, is not correct and needs a corrigendum from the authors.

4. Reading and reworking experimental procedures of alumina synthesis is sometimes like reading gossip magazines.
   *C. Marquez-Alvarez, N. Zilkova, J. Perez-Pariente, J. Cejka, Catal. Rev. Sci. Eng. 50 (**2008**) 222.*

5. Removal of the template in a liquid-phase calcination by means of a high-boiling solvent is an exciting development.
   *V. Cauda, C. Argyo, D. G. Piercey, T. Bein. J. Am. Chem. Soc. 133 (**2011**) 6484.*

6. High surface area is not always a prerequisite for having a good catalyst.
   *M. Hara, T. Yoshida, A. Takagaki, T. Takata, J.N. Kondo, S. Hayashi, K. Domen, Ang. Chem, Int. ed. 43 (**2004**) 2955.*

7. Living in the Netherlands has been like an esthetic operation for a Mexican woman, especially in winter times.

8. There is a general misunderstanding between the composition and texture of Mexican's tacos, enchiladas and burritos.